## **Conversation Contents**

#### **BBA Support on defining leachate concentrations**

### Ralph.Grismala@icfi.com

From: Sent: To: Subject:	Ralph.Grismala@icfi.com Fri Nov 16 2012 11:07:59 GMT-0700 (MST) rseal@usgs.gov BBA Support on defining leachate concentrations
Bob,	
ICF has been tasked with defining the volumes and concentrations of several flows for the Bristol Bay Assessment, including flows related to waste rock leachate, water treatment plant failures, TSF releases, pipeline concentrate, etc.	
Are you available to participate in discussions on this topic and to help ensure that our concentrations are reasonable?	
Best regards,	
Ralph	
RALPH GRISMALA, P.E.   +1.860.599.3534 direct   <u>ralph.grismala@icfi.com   icfi.com   icfi.com   ICF INTERNATIONAL   70 Timber Ridge Dr., Pawcatuck CT 06379   +1.860.886.3788 mobile</u>	

# Ralph.Grismala@icfi.com

From: Ralph.Grismala@icfi.com

**Sent:** Fri Nov 16 2012 11:33:21 GMT-0700 (MST)

To: rseal@usgs.gov

Subject: RE: BBA Support on defining leachate concentrations

Great, we'll try to set something up today, Monday, or Tuesday.

#### RALPH GRISMALA, P.E. +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

From: Robert R Seal [mailto:rseal@usgs.gov]
Sent: Friday, November 16, 2012 1:12 PM

To: Grismala, Ralph

**Cc:** Bauer, David; Jeff Frithsen (Frithsen.Jeff@epamail.epa.gov); Kate Schofield (Schofield.Kate@epamail.epa.gov); Jason Todd (Todd.Jason@epamail.epa.gov)

Subject: Re: BBA Support on defining leachate concentrations

Ralph,

That's fine. I am on will be out of town all of the following week at EPA's NARPM meeting. Otherwise, I am available.

Bob

Robert R (Bob) Seal, II US Geological Survey 954 National Center 12201 Sunrise Valley Drive Reston, VA 20192 703.648.6290 office 703.648.6383 fax <u>rseal@usgs.gov

From: "Grismala, Ralph" <<u>Ralph.Grismala@icfi.com>
To: "Bob Seal (<u>rseal@usgs.gov)" <<u><u>rseal@usgs.gov</u>>
Cc: "Jason Todd (<u>Todd.Jason@epamail.epa.gov)"

<<u>Todd.Jason@epamail.epa.gov>, "Kate Schofield

(<u>Schofield.Kate@epamail.epa.gov)" <<u>Schofield.Kate@epamail.epa.

gov>, "Jeff Frithsen (<u>Frithsen.Jeff@epamail.epa.gov)" <<u>Frithsen.Jeff@epamail.epa.gov>, "Bauer, David"

<<u>David.Bauer@icfi.com>

Date: 11/16/2012 01:07 PM

Subject: BBA Support on defining leachate concentrations

EPA-6363-0000725

Bob,

ICF has been tasked with defining the volumes and concentrations of several flows for the Bristol Bay Assessment, including flows related to waste rock leachate, water treatment plant failures, TSF releases, pipeline concentrate, etc.

Are you available to participate in discussions on this topic and to help ensure that our concentrations are reasonable?

Best regards, Ralph

RALPH GRISMALA, P.E. | +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com | icfi.com | ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

### Ralph.Grismala@icfi.com

From: Ralph.Grismala@icfi.com

**Sent:** Fri Nov 16 2012 13:13:47 GMT-0700 (MST)

To: rseal@usgs.gov

Subject: RE: BBA Support on defining leachate concentrations

Bob,

Are you available for a quick call this afternoon (say, 30 minutes) to discuss the overall objectives and approach? If so, what time works for you?

We'll probably need a longer call or calls on Monday or Tuesday to hash out details, but today's call can get us started.

Ralph

RALPH GRISMALA, P.E. +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

From: Grismala, Ralph

Sent: Friday, November 16, 2012 1:22 PM

To: 'Robert R Seal'
Cc: Rice, James

Subject: RE: BBA Support on defining leachate concentrations

Great, we'll try to set something up today, Monday, or Tuesday.

RALPH GRISMALA, P.E. +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

From: Robert R Seal <u>[mailto:rseal@usgs.gov]

Sent: Friday, November 16, 2012 1:12 PM

To: Grismala, Ralph

Cc: Bauer, David; Jeff Frithsen (<u>Frithsen.Jeff@epamail.epa.gov); Kate Schofield (<u>Schofield.Kate@epamail.epa.gov); Jason Todd (<u>Todd.Jason@epamail.epa.gov)

Subject: Re: BBA Support on defining leachate concentrations

Ralph,

That's fine. I am on will be out of town all of the following week at EPA's NARPM meeting. Otherwise, I am available.

Bob

Robert R (Bob) Seal, II US Geological Survey 954 National Center 12201 Sunrise Valley Drive Reston, VA 20192 703.648.6290 office 703.648.6383 fax

<u>rseal@usgs.gov

From: "Grismala, Ralph" <<u>Ralph.Grismala@icfi.com>
To: "Bob Seal (<u>rseal@usgs.gov)" <<<u>u>rseal@usgs.gov</u>>
Cc: "Jason Todd (<u>Todd.Jason@epamail.epa.gov)"
<<u>Todd.Jason@epamail.epa.gov>, "Kate Schofield

(<u>Schofield.Kate@epamail.epa.gov)" <<u><u>Schofield.Kate@epamail.epa.</u>

gov>, "Jeff Frithsen (<u>Frithsen.Jeff@epamail.epa.gov)" <<u>Frithsen.Jeff@epamail.epa.gov>, "Bauer, David"

<<u>David.Bauer@icfi.com>

Date: 11/16/2012 01:07 PM

Subject: BBA Support on defining leachate concentrations

Bob,

ICF has been tasked with defining the volumes and concentrations of several flows for the Bristol Bay Assessment, including flows related to waste rock leachate, water treatment plant failures, TSF releases, pipeline concentrate, etc.

Are you available to participate in discussions on this topic and to help ensure that our concentrations are reasonable?

Best regards, Ralph

RALPH GRISMALA, P.E. | +1.860.599.3534 direct | <u >ralph.grismala@icfi.com | icfi.com | ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

#### Frithsen.Jeff@epamail.epa.gov

From: Frithsen.Jeff@epamail.epa.gov

**Sent:** Fri Nov 16 2012 17:08:47 GMT-0700 (MST)

To: rseal@usgs.gov

Subject: Re: BBA Support on defining leachate concentrations

Bob:

Thanks for helping out!

Jeff

Jeffrey B. Frithsen, Ph.D.
Acting Associate Director for Ecology
National Center for Environmental Assessment, 8623-P
Office of Research and Development, U. S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW, Washington, DC 20460
703-347-8623 (office); 410-336-8535 (cell)

Physical Address (FedEx, UPS, and Overnight Deliveries) Two Potomac Yard Building - Room N7741 2733 S. Crystal Drive Arlington VA 22202 From: Robert R Seal <rseal@usgs.gov>

To: "Grismala, Ralph" < Ralph. Grismala@icfi.com>

Cc: "Bauer, David" < David.Bauer@icfi.com>, Jeff Frithsen/DC/USEPA/US@EPA, Kate Schofield/DC/USEPA/US@EPA, Jason

Todd/DC/USEPA/US@EPA

Date: 11/16/2012 01:04 PM

Subject: Re: BBA Support on defining leachate concentrations

Ralph,

That's fine. I am on the following week at EPA's NARPM meeting. Otherwise, I am available.

Bob

US Geological Survey 954 National Center 12201 Sunrise Valley Drive Reston, VA 20192 703.648.6290 office 703.648.6383 fax rseal@usgs.gov

From: "Grismala, Ralph" < Ralph. Grismala@icfi.com>

To: "Bob Seal (rseal@usgs.gov)" <rseal@usgs.gov>
Cc: "Jason Todd (Todd.Jason@epamail.epa.gov)" <Todd.Jason@epamail.epa.gov>, "Kate Schofield (Schofield.Kate@epamail.epa.gov)"
<Schofield.Kate@epamail.epa.gov>, "Jeff Frithsen (Frithsen.Jeff@epamail.epa.gov)" <Frithsen.Jeff@epamail.epa.gov>, "Bauer, David"

<David.Bauer@icfi.com>

Date: 11/16/2012 01:07 PM

Subject: BBA Support on defining leachate concentrations

Bob,

ICF has been tasked with defining the volumes and concentrations of several flows for the Bristol Bay Assessment, including flows related to waste rock leachate, water treatment plant failures, TSF releases, pipeline concentrate, etc.

Are you available to participate in discussions on this topic and to help ensure that our concentrations are reasonable?

Best regards,

Ralph

RALPH GRISMALA, P.E. | +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

From: rseal@usgs.gov

**Sent:** Mon Nov 19 2012 07:09:51 GMT-0700 (MST)

To: Ralph.Grismala@icfi.com

**Subject:** RE: BBA Support on defining leachate concentrations

Ralph,

I'm in the office now and will be in until 2:30 PM when I have to take my a full day in the office tomorrow (8 AM - 4:30 PM at least).

Bob

Robert R (Bob) Seal, II US Geological Survey 954 National Center 12201 Sunrise Valley Drive Reston, VA 20192 703.648.6290 office 703.648.6383 fax <u>rseal@usgs.gov

#### -----"Grismala, Ralph" <Ralph.Grismala@icfi.com> wrote: -----

To: Robert R Seal <rseal@usgs.gov>

From: "Grismala, Ralph" <Ralph.Grismala@icfi.com>

Date: 11/16/2012 01:26PM

cc: "Rice, James" < James.Rice@icfi.com>

Subject: RE: BBA Support on defining leachate concentrations

Great, we'll try to set something up today, Monday, or Tuesday.

RALPH GRISMALA, P.E.| +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

From: Robert R Seal [mailto:rseal@usgs.gov]
Sent: Friday, November 16, 2012 1:12 PM

To: Grismala, Ralph

Cc: Bauer, David; Jeff Frithsen (Frithsen.Jeff@epamail.epa.gov); Kate Schofield (Schofield.Kate@epamail.epa.gov);

Jason Todd (Todd.Jason@epamail.epa.gov)

Subject: Re: BBA Support on defining leachate concentrations

Ralph,

That's fine. I am on 60 60 and a second and will be out of town all of the following week at EPA's NARPM meeting. Otherwise, I am available.

Bob

Robert R (Bob) Seal, II US Geological Survey 954 National Center 12201 Sunrise Valley Drive Reston, VA 20192 703.648.6290 office 703.648.6383 fax <u>rseal@usqs.gov

From: "Grismala, Ralph" <<u>u>Ralph.Grismala@icfi.com</u>>

To: "Bob Seal (<u><u>rseal@usgs.gov</u>)" <<u><u>rseal@usgs.gov</u>>

Cc: "Jason Todd (<u><u>Todd.Jason@epamail.epa.gov</u>)"

<<u>u>Todd.Jason@epamail.epa.gov</u>>, "Kate Schofield

(<u><u>Schofield.Kate@epamail.epa.gov</u>)" <<u><u>Schofield.Kate@epamail.epa.</u>

<u>gov</u>>, "Jeff Frithsen (<u><u>Frithsen.Jeff@epamail.epa.gov</u>)" <<u><u>Frithsen.Jeff@epamail.epa.gov</u>>, "Bauer, David"

<<u>David.Bauer@icfi.com>

Date: 11/16/2012 01:07 PM

Subject: BBA Support on defining leachate concentrations

Bob,

ICF has been tasked with defining the volumes and concentrations of several flows for the Bristol Bay Assessment, including flows related to waste rock leachate, water treatment plant failures, TSF releases, pipeline concentrate, etc.

Are you available to participate in discussions on this topic and to help ensure that our concentrations are reasonable?

Best regards, Ralph

RALPH GRISMALA, P.E.| +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com | ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

## Ralph.Grismala@icfi.com

From: Ralph.Grismala@icfi.com

**Sent**: Mon Nov 19 2012 08:03:52 GMT-0700 (MST)

To: rseal@usgs.gov

Subject: RE: BBA Support on defining leachate concentrations

Bob,

Can you do a call at 10:30?

Ralph

#### RALPH GRISMALA, P.E. | +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

From: Robert R Seal [mailto:rseal@usgs.gov]
Sent: Monday, November 19, 2012 9:10 AM

To: Grismala, Ralph Cc: Rice, James

Subject: RE: BBA Support on defining leachate concentrations

Ralph,

I'm in the office now and will be in until 2:30 PM when I have to take my expect to have a full day in the office tomorrow (8 AM - 4:30 PM at least).

Bob

Robert R (Bob) Seal, II
US Geological Survey
954 National Center
12201 Sunrise Valley Drive
Reston, VA 20192
703.648.6290 office
703.648.6383 fax
<u>rseal@usgs.gov

-----"Grismala, Ralph" <<u>Ralph.Grismala@icfi.com> wrote: -----

To: Robert R Seal <<u>u>rseal@usgs.gov</u>>

From: "Grismala, Ralph" < <u>u>Ralph.Grismala@icfi.com</u>>

Date: 11/16/2012 01:26PM

cc: "Rice, James" <<u>u>James.Rice@icfi.com</u>>

Subject: RE: BBA Support on defining leachate concentrations

Great, we'll try to set something up today, Monday, or Tuesday.

RALPH GRISMALA, P.E. | +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile

From: Robert R Seal <u>[mailto:rseal@usgs.gov]

Sent: Friday, November 16, 2012 1:12 PM

To: Grismala, Ralph

Cc: Bauer, David; Jeff Frithsen (<u>Frithsen.Jeff@epamail.epa.gov); Kate Schofield (<u>Schofield.Kate@epamail.epa.gov); Jason Todd (<u>Todd.Jason@epamail.epa.gov)

Subject: Re: BBA Support on defining leachate concentrations

Ralph,

That's fine. I am on the following week at EPA's NARPM meeting. Otherwise, I am available.

Bob

Robert R (Bob) Seal, II US Geological Survey 954 National Center 12201 Sunrise Valley Drive Reston, VA 20192 703.648.6290 office 703.648.6383 fax <u>rseal@usgs.gov

From: "Grismala, Ralph" <<u>Ralph.Grismala@icfi.com>
To: "Bob Seal (<u>rseal@usgs.gov)" <<u><u>rseal@usgs.gov</u>>
Cc: "Jason Todd (<u>Todd.Jason@epamail.epa.gov)"

<<u>Todd.Jason@epamail.epa.gov>, "Kate Schofield"

(<u>Schofield.Kate@epamail.epa.gov)" <<u><u>Schofield.Kate@epamail.epa.</u>

gov>, "Jeff Frithsen (<u>Frithsen.Jeff@epamail.epa.gov)" <<u>Frithsen.Jeff@epamail.epa.gov>, "Bauer, David"

<<u>David.Bauer@icfi.com>

Date: 11/16/2012 01:07 PM

Subject: BBA Support on defining leachate concentrations

Bob,

ICF has been tasked with defining the volumes and concentrations of several flows for the Bristol Bay Assessment, including flows related to waste rock leachate, water treatment plant failures, TSF releases, pipeline concentrate, etc.

Are you available to participate in discussions on this topic and to help ensure that our concentrations are reasonable?

Best regards, Ralph

RALPH GRISMALA, P.E.| +1.860.599.3534 direct | <u>ralph.grismala@icfi.com | icfi.com

ICF INTERNATIONAL | 70 Timber Ridge Dr., Pawcatuck CT 06379 | +1.860.886.3788 mobile